

## ABSTRACT OF THE DISCLOSURE

A plurality of droplets of a liquid sample containing a biological substance are applied to positions where all the droplets join with one another on a surface of a water repellent substrate by using a microarrayer of the ink-jet type having a jet tip, the microarrayer exerting a pressure on the liquid sample contained therein to eject a droplet amount of the liquid sample from the jet tip, to form a spot constructed by an integrated body of the plurality of the droplets on the surface of the substrate. This enables easy, efficient and uniform production of spots of sizes that can be easily observed visually by using a non-contact type microarrayer capable of forming minute spots.